

Vibrational analysis of metal diimine dithiolate mixed ligand complexes

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The IR spectra of the $M(\text{mnt})(\text{baba})$ where $M = \text{Ni}$ and Pd , $\text{mnt} = 1,2\text{-maleonitrile}$ and $\text{baba} = \text{biacetylbisanyline}$, were recorded in the high as well in the low energy region. A complete assignment of the observed bands was performed based on well-documented references. Further, a normal coordinate analysis was carried out taking into account C_{2v} symmetry, and based in a simplified model in order to investigate the force field of both metal complexes and the potential energy distribution (PED) of the distinct modes of the quelate structure. © 1999 Elsevier Science B.V. All rights reserved.